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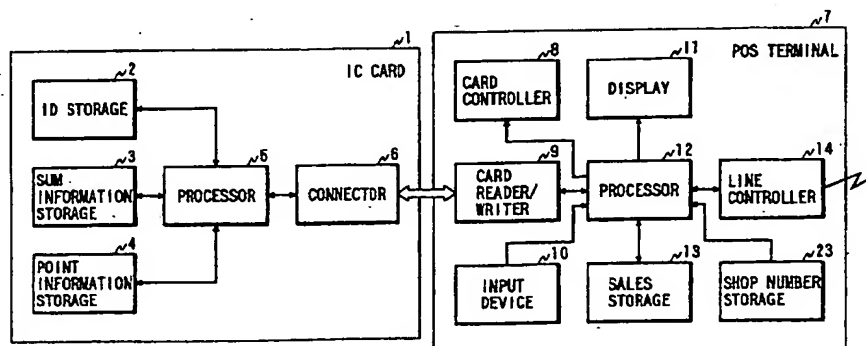
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(54) **IC card automated transaction terminal and IC card used therein**

(57) An IC card automated transaction terminal is provided to operate in conjunction with an IC card capable of storing a plurality of different balances relating to commercial transactions. For example, the IC card can provide separate storage for electronic money information and bonus point information. IC card reading/writing means are provided in the terminal for reading and writing such information stored in said IC card along with

input means for inputting transacted sum information and information storage means for storing electronic money information equivalent to transacted sum information. In another embodiment, small sum and large sum balances can be separately stored on the IC card, with only the large sum balance being locked and requiring a security code to carry out a transaction.

FIG. 1



EP 0 775 990 A3



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EUROPEAN SEARCH REPORT

Application Number
EP 96 11 8451

| DOCUMENTS CONSIDERED TO BE RELEVANT | | | |
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| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | CLASSIFICATION OF THE APPLICATION (Int. CL.6) |
| X | EP 0 668 581 A (FUJITSU LTD) 23 August 1995 (1995-08-23) | 1-3, 12, 13, 18-21, 23, 24, 26-29 | G07F7/08 G07F19/00 |
| Y | * page 6, line 49 - page 11, line 6; figures 1-9 * | 4, 14, 15, 22, 25 | |
| Y | FR 2 616 940 A (REMY CLAUDE) 23 December 1988 (1988-12-23) * page 1, line 1 - page 4, line 10 * * page 7, line 22 - page 9, line 26; figure 1 * | 4, 14, 15, 22, 25 | |
| A | US 5 380 991 A (VALENCIA LUIS ET AL) 10 January 1995 (1995-01-10) * column 2, line 51 - column 3, line 41 * | | |
| | | | TECHNICAL FIELDS SEARCHED (Int. CL.6) |
| | | | G07F G07G G06F |
| -The present search report has been drawn up for all claims | | | |
| Place of search MUNICH | | Date of completion of the search 3 April 2000 | Examiner Ruggiu, M |
| CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document | | T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document | |

EPO FORM 1503 03/92 (P04001)



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-4, 12-15, 18-29



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LACK OF UNITY OF INVENTION
SHEET B

Application Number
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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-4,12-15,18-29

IC card storing a first balance representing a sum of electronic money and a second balance representing bonus points, and terminal for updating said balances in the IC card.

2. Claims: 1,5-12,16-18,26,28,30-34

IC card storing two balances, each of which represents a sum of electronic money, and terminal for updating said electronic money balances in the IC card.

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 96 11 8451

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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03-04-2000

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82